

mhp3 GENE AND USES THEREOF

5 The present invention relates to *mhp3* nucleic acids and proteins encoded by the foregoing. The present invention further relates to novel apoprotein antigens encoded by *mhp3* for use in vaccines to prevent and treat diseases caused by infection with *Mycoplasma hyopneumoniae*. The invention further relates to methods for the recombinant production of such antigens.